Vienna Instruments Solo Download Instruments Flute I Full Library

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Flute I. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary. Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109-127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c-e and then c#-e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

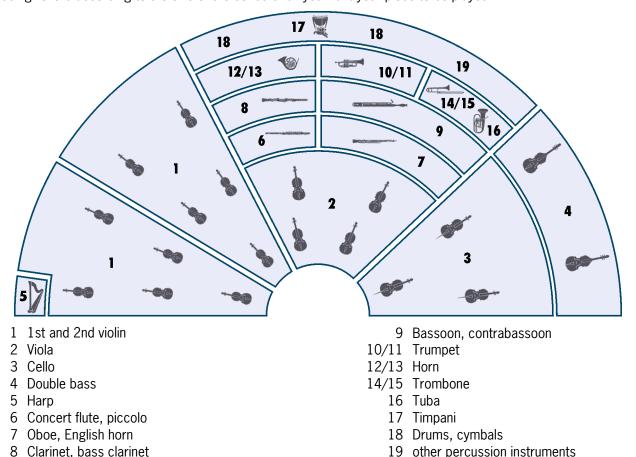
Abbreviation	Meaning	Abbreviation	Meaning
+	faster articulation (runs and	li	light
	arpeggios)	lo	long
150, 160,	150, 160, BPM (beats per minute)	ma	major
1s, 2s,	tone length 1 sec., 2 sec.,	me	medium
acc	accelerando	mi	minor
all	combination of all Patches of a	mord	mordent
	category	nA	normal attack
arp	arpeggio	noVib	without vibrato
cre	crescendo	perf-rep	repetition performance
dim	diminuendo	por	portato
dm	diminished (arpeggios)	run	octave run
dyn	dynamics (crescendo and	sA	soft attack
	diminuendo)	sl	slow
dyn5, dyn9	dynamics, 5/9 repetitions	sta, stac	staccato
fa	fast	str	strong
faT	fast triplets	sus	sustained
fA	fast attack	T	triplets
fA_auto	attack automation (normal/fast	UB	upbeat
	attack)	UB-a1, -a2	1, 2 upbeats
fast-rep	fast repetitions	v1, v2	1st, 2nd, variation
flatter	flutter tonguing	Vib	with (medium) vibrato
fx	effect – flute: tongue-ram staccato	Vib-progr	progressive vibrato
hA	hard attack	XF	cell crossfade Matrix
leg	legato		

Articulations

32 Flute I	Full Content
01 SHORT + LONG NOTES	Staccato, tongue-ram staccato Portato short and medium Portato long with strong and without vibrato Sustained with normal, progressive, and without vibrato
02 DYNAMICS	Medium crescendo and diminuendo with vibrato 2, 3 and 5 sec. Medium crescendo and diminuendo without vibrato 1.5, 2, 3 and 4 sec. Strong crescendo and diminuendo without vibrato, 4 and 6 sec. pfp with vibrato, 3, 6 and 9 sec. fpf with vibrato, 6 and 9 sec. Fortepiano, sforzato, sforzatissimo with and without vibrato
03 FLATTER + TRILLS	Flutter tonguing normal and dynamics Trills, minor 2nd to major 3rd Trills accelerando, minor and major 2nd Dynamics for all trills
10 PERF INTERVAL	Legato Marcato Grace notes
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato, portato, staccato slow and fast Dynamics for all repetitions Staccato fast triplets
14 PERF UPBEAT REPETITION	1 and 2 upbeats, slow and fast, normal and dynamics
15 FAST REPETITION	Staccato, 9 repetitions, 170 to 210 BPM Staccato triplets, 12 repetitions, 140 to 180 BPM
16 GRACE NOTES	Grace notes, minor 2nd to octave, up and down
17 SCALE RUNS	Octave runs, legato, up and down major and minor from C to B key, chromatic and whole tone 2 speeds for all
18 ARPEGGIOS	Arpeggios, legato and staccato, up and down diminished, major and minor from C to B key 2 speeds for all
19 MORDENTS	Mordents, legato and staccato, up and down 6 variations each

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

32 Flute I

The Instrument

Description

The flute is a woodwind instrument and usually made of metal (silver, gold, platinum) or wood (grenadilla, coco).

The woodwind section of the modern orchestra usually uses two flutes (and a piccolo or bass flute).

Range and notation

The standard range is from B3–D7 (forced up to F7). The concert flute in C is a non-transposing instrument notated in treble clef.

Sound characteristics

Airy, light, poetic, mellow, bright, wafting, ethereal, rich, soft, graceful, penetrating, brilliant, clear, shrill, silvery, wind-like, whistling, whispering, humming, filigree, sighing, aspirate.

The timbre is homogeneous in all registers with only the very lowest and highest notes exhibiting any different qualities.

The lowest notes can sound rather dull, dry and hollow which gives them a melancholy character.

In the middle register the flute sounds mellow, light, wafting, bright and rich. These characteristics are often used for solo work. In quiet passages the flute's middle register sounds particularly graceful.

The higher notes possess great brilliance and can sound penetrating and shrill.

Combination with other instruments

Like the horn, the flute blends extremely well with all instrument groups. Particularly good blends are achieved with the woodwinds and the strings. High notes are ideally suited for playing melody lines along with the violins, and are therefore found fulfilling precisely this task in practically every orchestral work.

Patches

01 SHORT + LONG NOTES	Range: A#3-D7		0
01 FL1_staccato		Samples: 390	RAM: 24 MB
Staccato			
5 velocity layers			
02 FL1_portato_short		Samples: 382	RAM: 23 MB
Portato, short			
5 velocity layers			

RAM: 23 MB

RAM: 18 MB

RAM: 21 MB

O3 FL1_portato_medium Portato, medium velocity layers O4 FL1_portato_long_Vib-str Portato, long, with strong vibrato velocity layers Samples: 298

05 FL1_portato_long_noVib Samples: 339

Portato, long, without vibrato 5 velocity layers Release samples

06 FL1_staccato_fx Range: A#3-F5 Samples: 56 RAM: 3 MB

Tongue-ram staccato 2 velocity layers

Release samples

11 FL1_sus_Vib Samples: 300 RAM: 18 MB

Sustained, with vibrato 4 velocity layers Release samples

12 FL1_sus_Vib_progr Samples: 226 RAM: 14 MB

Sustained, progressive vibrato 3 velocity layers Release samples

13 FL1_sus_noVib Samples: 339 RAM: 21 MB

Sustained, without vibrato 5 velocity layers Release samples

02 DYNAMICS Range: A#3-D7

01 FL1_dyn-me_Vib_2s Samples: 152 RAM: 9 MB

Medium crescendo and diminuendo with vibrato, 2 sec.

2 velocity layers

AB switch crescendo/diminuendo

02 FL1_dyn-me_Vib_3s Samples: 152 RAM: 9 MB

Medium crescendo and diminuendo with vibrato, 3 sec.

2 velocity layers

AB switch crescendo/diminuendo

03 FL1_dyn-str_Vib_5s Samples: 78 RAM: 4 MB

Strong crescendo and diminuendo with vibrato, 5 sec.

1 velocity layer

AB switch crescendo/diminuendo

RAM: 9 MB

RAM: 9 MB

RAM: 9 MB

RAM: 9 MB

RAM: 4 MB

RAM: 4 MB

RAM: 2 MB

RAM: 2 MB

RAM: 3 MB

RAM: 2 MB

RAM: 1 MB

Samples: 152

Samples: 152

Samples: 152

Samples: 152

Samples: 76

Samples: 77

Samples: 39

Samples: 39

Samples: 56

Samples: 39

Samples: 20

04 FL1_dyn-me_noVib_1'5s

Medium crescendo and diminuendo without vibrato, 1.5 sec.

2 velocity layers

AB switch crescendo/diminuendo

05 FL1_dyn-me_noVib_2s

Medium crescendo and diminuendo without vibrato, 2 sec.

2 velocity layers

AB switch crescendo/diminuendo

06 FL1_dyn-me_noVib_3s

Medium crescendo and diminuendo without vibrato, 3 sec.

2 velocity layers

AB switch crescendo/diminuendo

07 FL1_dyn-me_noVib_4s

Medium crescendo and diminuendo without vibrato, 4 sec.

2 velocity layers

AB switch crescendo/diminuendo

08 FL1_dyn-str_noVib_4s

Strong crescendo and diminuendo without vibrato, 4 sec.

1 velocity layer

AB switch crescendo/diminuendo

09 FL1_dyn-str_noVib_6s

Strong crescendo and diminuendo without vibrato, 6 sec.

1 velocity layer

AB switch crescendo/diminuendo

10 FL1 pfp Vib 3s

Crescendo-diminuendo with vibrato, 3 sec.

2 velocity layers

11 FL1_pfp_Vib_6s

Crescendo-diminuendo with vibrato, 6 sec.

2 velocity layers

12 FL1_pfp_Vib_9s

Crescendo-diminuendo with vibrato, 9 sec.

2 velocity layers

13 FL1_fpf_Vib_6s

Diminuendo-crescendo with vibrato, 6 sec.

2 velocity layers

14 FL1_fpf_Vib_9s

District Annual Control of the Contr

Diminuendo-crescendo with vibrato, 9 sec.

1 velocity layer

Range: A#3-C#7

Range: A#3-C#7

15 Fl 1 & Vib	Dames: A#2 C#7	Camples 20	DAM: 2 MD
15 FL1_fp_Vib Fortepiano, with vibrato	Range: A#3-C#7	Samples: 38	RAM: 2 MB
1 velocity layer			
16 FL1_sfz_Vib	Range: A#3-C7	Samples: 37	RAM: 2 MB
Sforzato, with vibrato 1 velocity layer			
17 FL1_sffz_Vib		Samples: 39	RAM: 2 MB
Sforzatissimo, with vibrato 1 velocity layer			
18 FL1_fp_noVib		Samples: 39	RAM: 2 MB
Fortepiano, without vibrato 1 velocity layer			
19 FL1_sfz_noVib		Samples: 39	RAM: 2 MB
Sforzato, without vibrato		-	
1 velocity layer			
20 FL1_sffz_noVib		Samples: 39	RAM: 2 MB
Sforzatissimo, without vibrato		•	
1 velocity layer			
			tr
03 FLATTER + TRILLS			0
01 FL1_flatter	Range: A#3-C#7	Samples: 148	RAM: 9 MB
Flutter tonguing	rango 71110 0117	Gampioor 2 10	10 000
2 velocity layers			
Release samples			
02 FL1_flatter_dyn	Range: A#3-C7	Samples: 74	RAM: 4 MB
Flutter tonguing, crescendo and diminuendo	_	•	
1 velocity layer			
AB switch crescendo/diminuendo			
11 FL1_trill_1	Range: A#3-C7	Samples: 145	RAM: 9 MB
Trills, minor 2nd	_	•	
2 velocity layers			
Release samples			
12 FL1_trill_2	Range: A#3-B6	Samples: 136	RAM: 8 MB
Trills, major 2nd	_	•	
2 velocity layers			
Pologgo camples			

Release samples

13 FL1_trill_3	Range: A#3-G6	Samples: 56	RAM: 3 MB
Frills, minor 3rd			
2 velocity layers			
Release samples			
4 FL1_trill_4	Range: A#3-G6	Samples: 68	RAM: 4 MB
rills, major 3rd			
2 velocity layers			
Release samples			
5 FL1_trill_1_dyn	Range: A#3-C7	Samples: 74	RAM: 4 MB
Frills, crescendo and diminuendo, minor 2nd L velocity layer			
AB switch crescendo/diminuendo			
.6 FL1_trill_2_dyn	Range: A#3-B6	Samples: 68	RAM: 4 MB
Trills, crescendo and diminuendo, major 2nd			
l velocity layer			
AB switch crescendo/diminuendo			
.7 FL1_trill_3_dyn	Range: A#3-G6	Samples: 28	RAM: 1 MB
rills, crescendo and diminuendo, minor 3rd			
velocity layer			
AB switch crescendo/diminuendo			
l8 FL1_trill_4_dyn	Range: A#3-G6	Samples: 39	RAM: 2 MB
Frills, crescendo and diminuendo, major 3rd			
L velocity layer			
AB switch crescendo/diminuendo			
l9 FL1_trill_1_acc	Range: A#3-C7	Samples: 142	RAM: 8 MB
Frills accelerando, minor 2nd			
2 velocity layers			
Release samples			
20 FL1_trill_2_acc	Range: A#3-A6	Samples: 132	RAM: 8 MB
rills accelerando, major 2nd			
2 velocity layers			
Release samples			
21 FL1_trill_1_acc-dyn	Range: A#3-C7	Samples: 72	RAM: 4 MB
rills accelerando, crescendo and diminuendo, mi	nor 2nd		
l velocity layer			
AB switch crescendo/diminuendo			
22 FL1_trill_2_acc-dyn	Range: A#3-A6	Samples: 66	RAM: 4 MB
rills accelerando, crescendo and diminuendo, ma	ajor 2nd	-	
velocity layer			

1 velocity layer

AB switch crescendo/diminuendo

Samples: 1043

Samples: 1413

Samples: 1118

Samples: 1192

Samples: 1260

Samples: 2316

10 PERF INTERVAL Range: A#3–C7

0

RAM: 65 MB

RAM: 88 MB

RAM: 69 MB

01 FL1_perf-legato

Legato

2 velocity layers

Release samples

02 FL1_perf-legato_grace

Grace notes, legato, minor 2nd to octave

3 velocity layers

Release samples

03 FL1_perf-marcato

Marcato

2 velocity layers

Release samples

11 PERF INTERVAL FAST

RAM: 74 MB

RAM: 78 MB

01 FL1_perf-legato_fa

Legato, fast

2 velocity layers

Release samples

02 FL1_perf-marcato_fa

Marcato, fast

2 velocity layers

Release samples

Range: A#3-D7

Range: A#3-C7

tru

RAM: 144 MB

01 FL1_perf-trill

12 PERF TRILL

Performance trills, legato, minor 2nd to major 3rd

2 velocity layers

Release samples

13 PERF REPETITION	Range: A#3-D7		••••
	•		
01 FL1_perf-rep_leg-sl	Range: A#3-C7	Samples: 285	RAM: 17 MB
Legato, slow 3 velocity layers			
02 FL1_perf-rep_leg-fa		Samples: 295	RAM: 18 MB
Legato, fast 3 velocity layers			
03 FL1_perf-rep_por-sl		Samples: 472	RAM: 29 MB
Portato, slow 3 velocity layers			
04 FL1_perf-rep_por-fa		Samples: 464	RAM: 29 MB
Portato, fast 3 velocity layers			
05 FL1_perf-rep_sta-sl		Samples: 464	RAM: 29 MB
Staccato, slow 3 velocity layers			
06 FL1_perf-rep_sta-fa		Samples: 464	RAM: 29 MB
Staccato, fast 3 velocity layers			
07 FL1_perf-rep_sta-faT		Samples: 708	RAM: 44 MB
Staccato triplets, fast 3 velocity layers			
21 FL1_perf-rep_dyn5_leg-sl	Range: A#3-C7	Samples: 190	RAM: 11 MB
Legato dynamics, slow, 5 repetitions			
1 velocity layer AB switch crescendo/diminuendo			
22 FL1_perf-rep_dyn5_leg-fa	Range: A#3-C7	Samples: 190	RAM: 11 MB
Legato dynamics, fast, 5 repetitions			
1 velocity layer AB switch crescendo/diminuendo			
23 FL1_perf-rep_dyn9_por-sl	Range: A#3-C7	Samples: 342	RAM: 21 MB
Portato dynamics, slow, 9 repetitions	C		_
1 velocity layer AB switch crescendo/diminuendo			
24 FL1_perf-rep_dyn9_por-fa		Samples: 360	RAM: 22 MB
Portato dynamics, fast, 9 repetitions			
1 velocity layer AB switch crescendo/diminuendo			

RAM: 21 MB

Samples: 342

25 FL1_perf-rep_dyn9_sta

Staccato dynamics, 9 repetitions

1 velocity layer

AB switch crescendo/diminuendo

14 PERF UPBEAT REPETITION	Range: A#3-D7		
O1 FL1_perf-rep_UB-a1_sl 1 upbeat, slow 2 velocity layers		Samples: 156	RAM: 9 MB
O2 FL1_perf-rep_UB-a2_sl 2 upbeats, slow 2 velocity layers		Samples: 156	RAM: 9 MB
O3 FL1_perf-rep_UB-a1_fa 1 upbeat, fast 2 velocity layers		Samples: 156	RAM: 9 MB
O4 FL1_perf-rep_UB-a2_fa 2 upbeats, fast 2 velocity layers		Samples: 156	RAM: 9 MB
11 FL1_perf-rep_dyn4_UB-a1_sl 1 upbeat, slow, dynamics 4 repetitions 1 velocity layer AB switch crescendo/diminuendo		Samples: 160	RAM: 10 MB
12 FL1_perf-rep_dyn4_UB-a2_sl 2 upbeats, slow, dynamics 4 repetitions 1 velocity layer AB switch crescendo/diminuendo		Samples: 160	RAM: 10 MB
13 FL1_perf-rep_dyn4_UB-a1_fa 1 upbeat, fast, dynamics 4 repetitions 1 velocity layer AB switch crescendo/diminuendo		Samples: 160	RAM: 10 MB
14 FL1_perf-rep_dyn4_UB-a2_fa 2 upbeats, fast, dynamics 4 repetitions 1 velocity layer AB switch crescendo/diminuendo		Samples: 160	RAM: 10 MB

Range: A#3-C7

Samples: 118

Samples: 116

Samples: 184

Samples: 182

Samples: 178

Samples: 178

Samples: 172

15 FAST REPETITION Range: A#3-D7



RAM: 7 MB

RAM: 7 MB

01 FL1_fast-rep_170 (180/190/200/210)

Fast repetitions

Staccato, 9 repetitions, 170/180/190/200/210 BPM

3 velocity layers

Release samples

11 FL1_fast-rep_140T (150/160/170/180)

Fast repetitions

Staccato triplets, 12 repetitions, 140/150/160/170/180 BPM

3 velocity layers

Release samples

16 GRACE NOTES Range: A#3-C7



RAM: 11 MB

RAM: 11 MB

RAM: 11 MB

RAM: 11 MB

RAM: 10 MB

The samples are mapped to their target notes.

01 FL1_grace-1

Grace notes, minor 2nd

3 velocity layers

Release samples

AB switch up/down

02 FL1_grace-2

Grace notes, major 2nd

3 velocity layers

Release samples

AB switch up/down

03 FL1_grace-3

Grace notes, minor 3rd

3 velocity layers

Release samples

AB switch up/down

04 FL1_grace-4

Grace notes, major 3rd

3 velocity layers

Release samples

AB switch up/down

05 FL1_grace-5

Grace notes, 4th

3 velocity layers

Release samples

AB switch up/down

Vienna Instruments Flute I - DL-Full

		2 Flute 1 / Fatches
06 FL1_grace-6	Samples: 172	RAM: 10 MB
Grace notes, diminished 5th		
3 velocity layers		
Release samples		
AB switch up/down		
07 FL1_grace-7	Samples: 166	RAM: 10 MB
Grace notes, 5th	·	
3 velocity layers		
Release samples		
AB switch up/down		
08 FL1_grace-8	Samples: 166	RAM: 10 MB
Grace notes, minor 6th		
3 velocity layers		
Release samples		
AB switch up/down		
09 FL1_grace-9	Samples: 160	RAM: 10 MB
Grace notes, major 6th	•	
3 velocity layers		
Release samples		
AB switch up/down		
10 FL1_grace-10	Samples: 160	RAM: 10 MB
Grace notes, minor 7th	·	
3 velocity layers		
Release samples		
AB switch up/down		
11 FL1_grace-11	Samples: 154	RAM: 9 MB
Grace notes, major 7th	-	
3 velocity layers		
Release samples		
AB switch up/down		
12 FL1_grace-12	Samples: 154	RAM: 9 MB
Grace notes, octave	-	
3 velocity layers		
Release samples		
AB switch up/down		

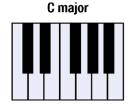
17 SCALE RUNS

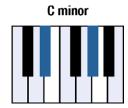
Please note that upward runs can be played only to an octave below the upper play range, downward runs to an octave above the lower play range. The octave runs are mapped diatonically according to their scale. For the playing ranges and mappings of individual scales, please see the appendix.

Range: B3-D7

Range: B3-D7

Range: B3-D7





Legato major Range: B3-D7



RAM: 4 MB

Samples: 64

Samples: 62

Samples: 64

Samples: 64

01 FL1_run-leg_C-ma (through to B-ma)

Octave runs, legato, C to B major 2 velocity layers AB switch up/down

Legato major faster



RAM: 3 MB

01 FL1_run-leg+_C-ma (through to B-ma)

Octave runs, legato, fast, C to B major 2 velocity layers AB switch up/down

Legato minor



RAM: 4 MB

01 FL1 run-leg C-mi (through to B-mi)

Octave runs, legato, C to B minor 2 velocity layers AB switch up/down

Legato minor faster



RAM: 4 MB

01 FL1_run-leg+_C-mi (through to B-mi)

Octave runs, legato, fast, C to B minor 2 velocity layers AB switch up/down Legato special Range: A#3-D7



01 FL1_run-leg_chromatic

Octave runs, legato, chromatic 2 velocity layers AB switch up/down

02 FL1_run-leg_whole

Octave runs, legato, whole tone 2 velocity layers AB switch up/down Samples: 54

RAM: 3 MB

Samples: 54

Samples: 56

RAM: 3 MB

Legato special faster

01 FL1_run-leg+_chromatic

Octave runs, legato, fast, chromatic 2 velocity layers AB switch up/down

02 FL1_run-leg+_whole

Octave runs, legato, fast, whole tone 2 velocity layers AB switch up/down



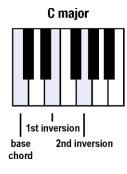
RAM: 3 MB

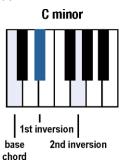
Samples: 56

RAM: 3 MB

18 ARPEGGIOS

Please note that the playing ranges vary with the key of the Patch used. For playing ranges and mappings for each key, please see the appendix.





Range: A#3-D7

Legato diminished

,,,,,,

01_FL1_arp-leg_dm Samples: 80 RAM: 5 MB

Range: B3-D7

Arpeggios, legato Diminished 2 velocity layers AB switch up/down Legato diminished fast Range: C4-D7



01_FL1_arp-leg+_dm

Arpeggios, legato, fast Diminished

2 velocity layers

AB switch up/down

Samples: 80

Samples: 28

Samples: 28

Samples: 28

Samples: 28

RAM: 5 MB

RAM: 1 MB

Legato major Range: C4–C7

01_FL1_arp-leg_C-ma (through to B-ma)

Arpeggios, legato

C to B major

Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers

AB switch up/down

Legato major fast



RAM: 1 MB

01_FL1_arp-leg+_C-ma (through to B-ma)

Arpeggios, legato, fast

C to B major

Mapping (according to key, here for C major): C - base, E - 1st inversion, G - 2nd inversion

2 velocity layers

AB switch up/down

Legato minor

Range: C4-C7

Range: C4-C7



RAM: 1 MB

01_FL1_arp-leg_C-mi (through to B-mi)

Arpeggios, legato

C to B minor

Mapping (according to key, here for C minor): C – base, D# – 1st inversion, G – 2nd inversion

2 velocity layers

AB switch up/down

Legato minor fast Range: C4-C7



RAM: 1 MB

01_FL1_arp-leg_C-mi+ (through to B-mi+)

Arpeggios, legato, fast

C to B minor

Mapping (according to key, here for C minor): C - base, D# - 1st inversion, G - 2nd inversion

Samples: 78

Samples: 78

Samples: 28

Samples: 28

2 velocity layers AB switch up/down

Staccato diminished



RAM: 4 MB

01_FL1_arp-sta_dm

Arpeggios, staccato Diminished 2 velocity layers AB switch up/down



RAM: 4 MB

01_FL1_arp-sta+_dm

Staccato diminished fast

Arpeggios, staccato, fast Diminished 2 velocity layers AB switch up/down

Staccato major



RAM: 1 MB

01_FL1_arp-sta_C-ma (through to B-ma)

Arpeggios, staccato C to B major

Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers AB switch up/down

Staccato major fast



RAM: 1 MB

01_FL1_arp-sta+_C-ma (through to B-ma)

Arpeggios, staccato, fast

C to B major

Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers

AB switch up/down

Range: C4-D7

Range: C4-D7

Range: C4-C7

Range: C4-C7

RAM: 1 MB

Samples: 28

Samples: 28

Staccato minor Range: C4–C7



01_FL1_arp-sta_C-mi (through to B-mi)

Arpeggios, staccato

C to B minor

Mapping (according to key, here for C minor): C – base, D# – 1st inversion, G – 2nd inversion

2 velocity layers

AB switch up/down

Staccato minor fast



RAM: 1 MB

01 FL1 arp-sta C-mi+ (through to B-mi+)

Arpeggios, staccato, fast

C to B minor

Mapping (according to key, here for C minor): C – base, D# – 1st inversion, G – 2nd inversion

2 velocity layers

AB switch up/down

19 MORDENTS



The samples are mapped to their target notes.



Range: C4-C7



01 FL1_mord-leg_v1 Range: C4-A#6 Samples: 60 RAM: 3 MB

Mordents, legato Single mordent, minor 2nd 2 velocity layers AB switch up/down

02 FL1_mord-leg_v2 Range: C4-B6 Samples: 60 RAM: 3 MB

Mordents, legato Single mordent, major 2nd 2 velocity layers AB switch up/down

		`	2 Tiute 1/ Tatches
03 FL1_mord-leg_v3 Mordents, legato Minor 2nd - minor 2nd 2 velocity layers AB switch up/down	Range: C4–B6	Samples: 60	RAM: 3 MB
O4 FL1_mord-leg_v4 Mordents, legato Minor 2nd - major 2nd 2 velocity layers AB switch up/down	Range: C4–C7	Samples: 60	RAM: 3 MB
05 FL1_mord-leg_v5 Mordents, legato Major 2nd - minor 2nd 2 velocity layers AB switch up/down	Range: C4–C7	Samples: 60	RAM: 3 MB
O6 FL1_mord-leg_v6 Mordents, legato Major 2nd - major 2nd 2 velocity layers AB switch up/down	Range: C4–C#7	Samples: 60	RAM: 3 MB
11 FL1_mord-sta_v1 Mordents, staccato Single mordent, minor 2nd 2 velocity layers AB switch up/down	Range: C4–A#6	Samples: 60	RAM: 3 MB
12 FL1_mord-sta_v2 Mordents, staccato Single mordent, major 2nd 2 velocity layers AB switch up/down	Range: C4–B6	Samples: 60	RAM: 3 MB
13 FL1_mord-sta_v3 Mordents, staccato Minor 2nd - minor 2nd 2 velocity layers AB switch up/down	Range: C4–B6	Samples: 60	RAM: 3 MB
14 FL1_mord-sta_v4 Mordents, staccato Minor 2nd - major 2nd 2 velocity layers AB switch up/down	Range: C4–C7	Samples: 60	RAM: 3 MB

RAM: 3 MB

15 FL1 mord-sta v5

Mordents, staccato Major 2nd - minor 2nd

2 velocity layers

AB switch up/down

16 FL1 mord-sta v6

Mordents, staccato Major 2nd - major 2nd 2 velocity layers AB switch up/down Range: C4-C#7

Range: C4-C7

Samples: 60

Samples: 19

Samples: 19

Samples: 19

Samples: 19

Samples: 20

Samples: 20

Samples: 19

Samples: 60

RAM: 3 MB

98 RESOURCES

Isolated dynamics repetitions Single layer long notes Interval performance variations.

01 Perf Rep dyn Range: A#3-D7



RAM: 1 MB

01_FL1_rep_cre5_leg-sl-1 (2/3/4/5)

Extracted repetitions: Legato slow, crescendo, 1st to 5th note

1 velocity layer

01_FL1_rep_dim5_leg-sl-1 (2/3/4/5)

Extracted repetitions: Legato slow, diminuendo, 1st to 5th note

1 velocity layer

02 FL1 rep cre5 leg-fa-1 (2/3/4/5)

Extracted repetitions: Legato fast, crescendo, 1st to 5th note

1 velocity layer

02_FL1_rep_dim5_leg-fa-1 (2/3/4/5)

Extracted repetitions: Legato fast, diminuendo, 1st to 5th note

1 velocity layer

03_FL1_rep_cre9_por-1 (2/3/4/5/6/7/8/9)

Extracted repetitions: Portato, crescendo, 1st to 9th note

1 velocity layer

03_FL1_rep_dim9_por-1 (2/3/4/5/6/7/8/9)

Extracted repetitions: Portato, diminuendo, 1st to 9th note

1 velocity layer

04_FL1_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)

Extracted repetitions: Staccato, crescendo, 1st to 9th note

1 velocity layer

-

RAM: 1 MB

RAM: 1 MB

Samples: 19

Samples: 74

Samples: 74

Samples: 76

Samples: 76

Samples: 1043

04_FL1_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)

Extracted repetitions: Staccato, diminuendo, 1st to 9th note

1 velocity layer

02 Long Notes - Single Layer Range: A#3-F7

θ

RAM: 4 MB

RAM: 4 MB

RAM: 4 MB

RAM: 4 MB

01 FL1_sus_Vib-pp

Sustained, pianissimo, with vibrato

1 velocity layer Release samples

02 FL1_sus_Vib-p

Sustained, piano, with vibrato

1 velocity layer

Release samples

03 FL1_sus_Vib-mf

Sustained, mezzoforte, with vibrato

1 velocity layer

Release samples

04 FL1_sus_Vib-f

Sustained, forte, with vibrato

1 velocity layer

Release samples

Range: A#3-C7

0

RAM: 65 MB

01 FL1_perf-leg_sustain

03 Perf Speed variation

Interval performance: Legato with sustain crossfading

2 velocity layers

Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

RAM: 119 MB

RAM: 83 MB

RAM: 75 MB

Samples: 1919

Samples: 1335

Samples: 1213

Matrices

Matrix - LEVEL 1

L1 FL1 Articulation Combi

Single note articulations

Staccato, portato short, sustained with and without vibrato, crescendo-diminuendo 3 and 6 sec., fortepiano and sforzato, flutter tonguing normal and dynamics, trills half and whole tone

AB switch crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–F1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus vib.	pfp 3s.	fp	flutter	trill half
V2	port. short	sus no vib.	pfp 6s.	sfz	flutter dyn.	trill whole

L1 FL1 Perf-Legato Speed

Interval performances

Legato with sustain crossfading, normal, and fast

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
Legato	sustain XF	normal	fast

L1 FL1 Perf-Repetitions Combi

Repetition performances Legato slow Portato fast

Staccato fast

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions	
V1	legato slow	
V2	portato fast	
V3	staccato fast	

Matrix - LEVEL 2 A - Advanced

01 FL1 Perf-Universal Samples: 2513 RAM: 157 MB

Interval performances Legato with sustain crossfading, normal, and fast Marcato normal and fast

Monophonic, Speed controller

	H1	H2	H3
legato	sustain	normal	fast
marcato	normal	normal	fast

RAM: 171 MB

RAM: 110 MB

RAM: 83 MB

RAM: 92 MB

RAM: 106 MB

RAM: 37 MB

Samples: 2747

Samples: 1760

Samples: 1335

Samples: 1478

Samples: 1699

Samples: 606

02 FL1 Perf-Trill Speed

Multi interval performances

Legato and trills

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2	
V1	legato	trills	

03 FL1 Short+Long notes - All

Single notes

Staccato, portato short and medium

Sustained with normal, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches. C1–D#1

,			,	
	C1	C#1	D1	D#1
V1	staccato	portato short	portato med.	sus. vibrato
V2	%	%	%	sus. prog. vibrato
V3	%	%	%	sus. no vibrato

Vertical: Modwheel, 3 zones

Matrix - LEVEL 2 B - Standard

11 FL1 Perf-Legato Speed

Interval performances

Legato with sustain crossfading, normal, and fast

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
Legato	sustain XF	normal	fast

12 FL1 Perf-Marcato Speed

Interval performances: Marcato normal and fast

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
Marcato	normal	fast

13 FL1 Short notes - All

Single notes

Staccato, portato short and medium, portato long with and without vibrato, tongue-ram staccato

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	port. short	port. med.	port.long vib.	port.long no vib.	tongue stac.

14 FL1 Long notes - All

Single notes

Sustained with normal, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
sustained	normal vibrato	progr. vibrato	no vibrato

RAM: 31 MB

RAM: 77 MB

Samples: 496

Samples: 1238

15 FL1 Dynamics - Small

Dynamics

Medium crescendo and diminuendo 2 and 3 sec., strong crescendo and diminuendo 5 sec.

Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dynamics vib.	med. 2sec.	med. 3sec.	strong 5sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 FL1 Dynamics - Large

Dynamics

Crescendo and diminuendo, medium with and without vibrato, strong without vibrato Crescendo-diminuendo 3, 6, and 9 sec.

Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
dynamics vib.	med. 2 sec.	med. 3 sec.	strong 5 sec.
med. dyn. no vib.	2 sec.	3 sec.	4 sec.
strong dyn. no vib.	4 sec.	6 sec.	6 sec.
pfp vib.	3 sec.	6 sec.	9 sec.
special dyn.	fp vib.	sfz vib.	sffz vib.

17 FL1 Flatter Samples: 222 RAM: 13 MB

Flutter tonguing

Normal, dynamics, and normal/dynamics with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal.	dynamics	Cell XF

18 FL1 Trills - normal Samples: 586 RAM: 36 MB

Trills

Normal and dynamics Minor 2nd to major 3rd

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 4 zones

	C1	C#1		
minor 2nd	normal	dynamics		
major 2nd	normal	dynamics		
minor 3rd	normal	dynamics		
major 3rd	normal	dynamics		

RAM: 25 MB

RAM: 134 MB

RAM: 105 MB

RAM: 22 MB

Samples: 412

Samples: 2149

Samples: 1685

Samples: 354

19 FL1 Trills - accelerando

Trills accelerando Normal and dynamics Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

20 FL1 Trills - All Samples: 998 RAM: 62 MB

Trills constant speed and accelerando

Normal and dynamics

Minor 2nd to major 3rd (normal) / 2nd (accelerando)

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 4 zones

	normal	norm.dyn.	accelerando	accel.dyn.
V1	min. 2nd	min. 2nd	min. 2nd	
V2	maj. 2nd	maj. 2nd	maj. 2nd	maj. 2nd
V3	min. 3rd	min. 3rd	maj. 2nd	maj. 2nd
V4	maj. 3rd	maj. 3rd	maj. 2nd	maj. 2nd

Matrix - LEVEL 2 C - Repetitions

31 FL1 Perf-Repetitions - Combi

Repetition performances

Slow legato, slow and fast portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	
V1	legato slow	portato slow	portato fast	staccato slow	staccato fast

32 FL1 Perf-Repetitions - Speed

Repetition performances

Slow legato, slow portato, slow and fast staccato

Speed controller

Matrix switches: Horizontal: Speed, 4 zones

• •				
	legato	portato	staccato	staccato
speed	slow	slow	slow	fast

33 FL1 Fast-Repetitions

Fast repetitions

170, 180, 190, 200, 210 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	170	180	190	200	210

RAM: 39 MB

RAM: 23 MB

RAM: 23 MB

RAM: 23 MB

RAM: 23 MB

RAM: 6 MB

Samples: 624

Samples: 376

Samples: 370

Samples: 376

Samples: 370

Samples: 108

34 FL1 Perf Upbeat Repetitions

Repetition performances

1 and 2 upbeats, slow and fast

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1		
1 upbeat	slow	fast		
2 upbeats	slow	fast		

Matrix - LEVEL 2 D - Scale+Phrase

41 FL1 Scale runs-legato - Major

Octave runs, legato, C to B major

AB switch up/down

Ī	1,7	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
İ	legato maj.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В

42 FL1 Scale runs-legato - Major+

Octave runs, legato fast, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato maj. fast	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В

43 FL1 Scale runs-legato - Minor

Octave runs, legato, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato min.	С	C#	D	D#	Ε	F	F#	G	G#	Α	A#	В

44 FL1 Scale runs-legato - Minor+

Octave runs, legato fast, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato min. fast	С	C#	D	D#	E	F	F#	G	G#	А	A#	В

45 FL1 Scale runs-legato - Special

Octave runs, legato, chromatic and whole tone

AB switch up/down

Matrix switches: Vertical: Modwheel, 2 zones

	legato
V1	chromatic
V2	whole tone

RAM: 7 MB

RAM: 53 MB

RAM: 53 MB

RAM: 10 MB

RAM: 9 MB

RAM: 10 MB

Samples: 112

Samples: 860

Samples: 852

Samples: 160

Samples: 158

Samples: 162

46 FL1 Scale runs-legato - Special+

Octave runs, legato fast, chromatic and whole tone AB switch up/down

Matrix switches: Vertical: Modwheel, 2 zones

	legato fast
V1	chromatic
V2	whole tone

47 FL1 Scale runs-legato - all

Octave runs, legato, C to B major and minor, chromatic and whole tone AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
chromatic	%	%	%	%	%	%	%	%	%	%	%	%
whole tone	%	%	%	%	%	%	%	%	%	%	%	%

48 FL1 Scale runs-legato - all+

Octave runs, legato fast, C to B major and minor, chromatic and whole tone AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
chromatic	%	%	%	%	%	%	%	%	%	%	%	%
whole tone	%	%	%	%	%	%	%	%	%	%	%	%

51 FL1 Arpeggios-legato - Major

Arpeggios, legato, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato maj.	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В

52 FL1 Arpeggios-legato - Major+

Arpeggios, legato fast, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato maj. fast	С	C#	D	D#	E	F	F#	G	G#	А	A#	В

53 FL1 Arpeggios-legato - Minor

Arpeggios, legato, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato min.	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В

RAM: 10 MB

RAM: 25 MB

RAM: 25 MB

RAM: 10 MB

RAM: 10 MB

RAM: 10 MB

Samples: 162

Samples: 406

Samples: 400

Samples: 160

Samples: 160

Samples: 162

54 FL1 Arpeggios-legato - Minor+

Arpeggios, legato fast, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato min. fast	С	C#	D	D#	E	F	F#	G	G#	А	A#	В

55 FL1 Arpeggios-legato - All

Arpeggios, legato, C to B major and minor, diminished

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

56 FL1 Arpeggios-legato - All+

Arpeggios, legato fast, C to B major and minor, diminished

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

57 FL1 Arpeggios-staccato - Major

Arpeggios, staccato, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В

58 FL1 Arpeggios-staccato - Major+

Arpeggios, staccato fast, C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	С	C#	D	D#	E	F	F#	G	G#	А	A#	В

59 FL1 Arpeggios-staccato - Minor

Arpeggios, staccato, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В

RAM: 10 MB

RAM: 25 MB

RAM: 25 MB

RAM: 22 MB

RAM: 22 MB

RAM: 75 MB

Samples: 162

Samples: 400

Samples: 400

Samples: 360

Samples: 360

Samples: 1207

60 FL1 Arpeggios-staccato - Minor+

Arpeggios, staccato fast, C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	С	C#	D	D#	E	F	F#	G	G#	Α	A#	В
fast												

61 FL1 Arpeggios-staccato - All

Arpeggios, staccato, C to B major and minor, diminished

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

62 FL1 Arpeggios-staccato - All+

Arpeggios, staccato fast, C to B major and minor, diminished

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

63 FL1 Mordents-legato

Mordents, legato, var. 1 to 6

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
variation	turn min.2nd	turn maj.2nd	min.2nd - min.2nd	min.2nd - maj.2nd	maj.2nd - min.2nd	maj.2nd - maj.2nd

64 FL1 Mordents-staccato

Mordents, staccato, var. 1 to 6

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
variation	turn min.2nd	turn maj.2nd	min.2nd - min.2nd	min.2nd - maj.2nd	maj.2nd - min.2nd	maj.2nd - maj.2nd

65 FL1 Grace notes - All

Grace notes, minor 2nd to octave

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
interval	min. 2nd	maj. 2nd	min. 3rd	maj. 3rd	4th	dim. 5th	5th	min. 6th	maj. 6th	min. 7th	maj. 7th	octave

RAM: 5 MB

RAM: 5 MB

RAM: 11 MB

RAM: 10 MB

RAM: 11 MB

RAM: 21 MB

Samples: 95

Samples: 95

Samples: 180

Samples: 171

Samples: 190

Samples: 351

Matrix - LEVEL 2 E - Keyswitch Vel

71 FL1 Legato slow - cre5

Slow legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 FL1 Legato fast - cre5

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 FL1 Portato - cre9

Portato notes: Crescendo, keyswitch velocity Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 FL1 Staccato - cre9

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

		C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocit	у	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 FL1 Combi - cre5

Slow and fast legato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 FL1 Combi - cre9

Portato and staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

RAM: 5 MB

RAM: 5 MB

RAM: 11 MB

RAM: 10 MB

RAM: 11 MB

RAM: 21 MB

Samples: 95

Samples: 95

Samples: 180

Samples: 171

Samples: 190

Samples: 351

77 FL1 Legato slow - dim5

Slow legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 FL1 Legato fast - dim5

Fast legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 FL1 Portato - dim9

Portato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 FL1 Staccato - dim9

Staccato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 FL1 Combi - dim5

Slow and fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 FL1 Combi - dim9

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

RAM: 260 MB

RAM: 574 MB

Samples: 4167

Samples: 9196

Presets

FL1 VSL Preset Level 1

L1 FL1 Perf-Legato Speed

L1 FL1 Articulation Combi

L1 FL1 Perf-Repetitions Combi

Keyswitches: C2-D2

FL1 VSL Preset Level 2

01 FL1 Perf-Universal

02 FL1 Perf-Trill Speed

L1 FL1 Articulation Combi

31 FL1 Perf-Repetitions - Combi

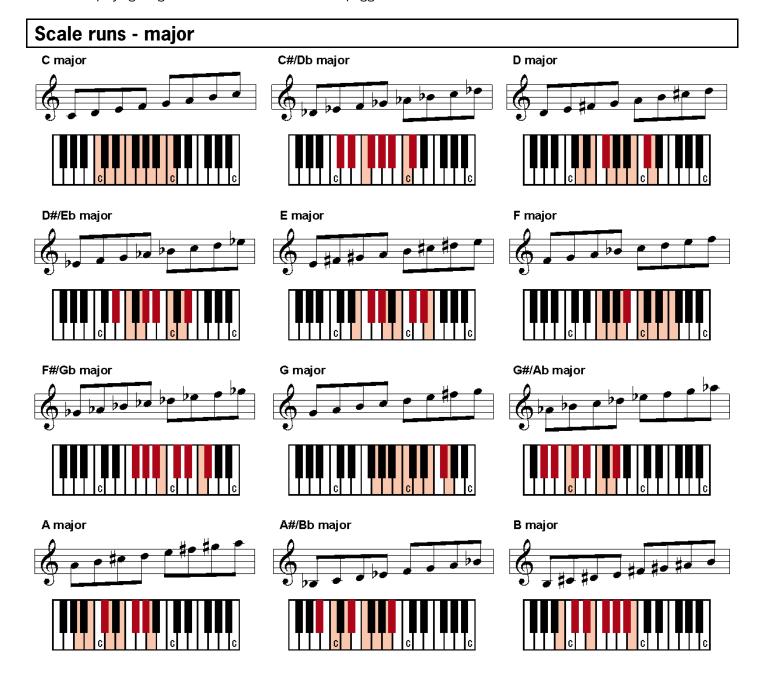
76 FL1 Combi - cre9

47 FL1 Scale runs-legato - all

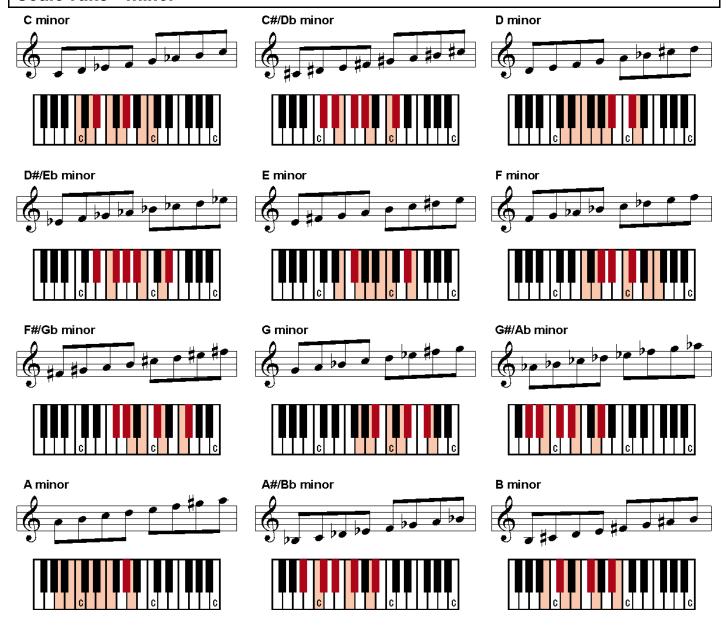
Keyswitches: C2-F2

Appendix

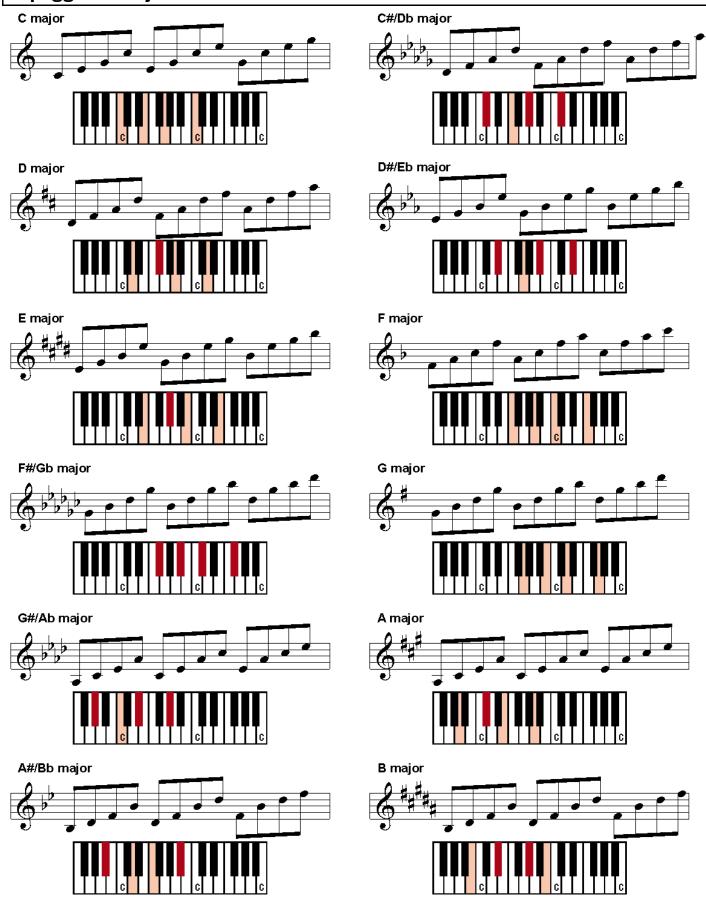
In the following, you will find notations and keyboard layout graphics for major and minor scale runs and arpeggios, as well as a list of playing ranges for the individual scale and arpeggio Patches.

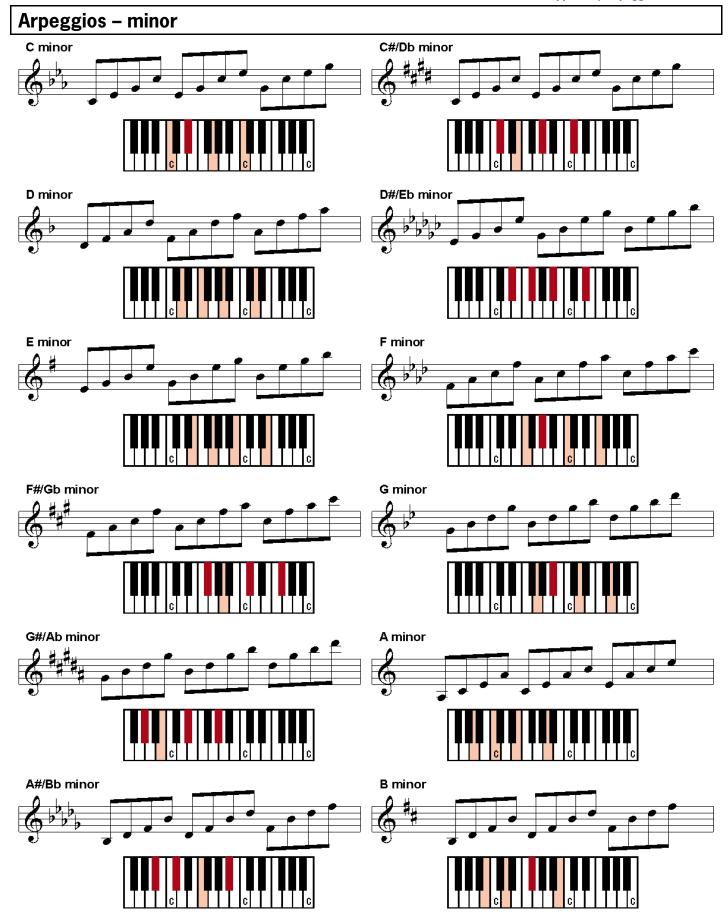


Scale runs - minor



Arpeggios - major





Scale and arpeggio ranges

Octave runs

Legato major	play range	Legato minor	play range
01 FL1_run-leg_C-ma	B3-D7	01 FL1_run-leg_C-mi	C4-D7
02 FL1_run-leg_C#-ma	C4-C#7	02 FL1_run-leg_C#-mi	C4-C#7
03 FL1_run-leg_D-ma	C#4-D7	03 FL1_run-leg_D-mi	C#4-D7
04 FL1_run-leg_D#-ma	C4-C7	04 FL1_run-leg_D#-mi	B3-B6
05 FL1_run-leg_E-ma	C#4-C#7	05 FL1_run-leg_E-mi	C4-C7
06 FL1_run-leg_F-ma	C4-C7	06 FL1_run-leg_F-mi	C4-C#7
07 FL1_run-leg_F#-ma	C#4-C#7	07 FL1_run-leg_F#-mi	C#4-D7
08 FL1_run-leg_G-ma	B3-C7	08 FL1_run-leg_G-mi	C4-C7
09 FL1_run-leg_G#-ma	C4-C#7	09 FL1_run-leg_G#-mi	C#4-C#7
10 FL1_run-leg_A-ma	B3-C#7	10 FL1_run-leg_A-mi	B3-C7
11 FL1_run-leg_A#-ma	C4-D7	11 FL1_run-leg_A#-mi	C4-C#7
12 FL1_run-leg_B-ma	B3-C#7	12 FL1_run-leg_B-mi	B3-C#7
Legato major faster	play range	Legato minor faster	play range
Legato major faster 01 FL1 run-leg+ C-ma	play range C4-D7	Legato minor faster 01 FL1 run-leg+ C-mi	play range C4-D7
01 FL1_run-leg+_C-ma		01 FL1_run-leg+_C-mi	
•	C4-D7	_	C4-D7
01 FL1_run-leg+_C-ma 02 FL1_run-leg+_C#-ma	C4-D7 C4-C#7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi	C4-D7 C4-C#7
01 FL1_run-leg+_C-ma 02 FL1_run-leg+_C#-ma 03 FL1_run-leg+_D-ma	C4–D7 C4–C#7 C#4–D7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi	C4–D7 C4–C#7 C#4–D7
01 FL1_run-leg+_C-ma 02 FL1_run-leg+_C#-ma 03 FL1_run-leg+_D-ma 04 FL1_run-leg+_D#-ma	C4-D7 C4-C#7 C#4-D7 C4-C7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi 04 FL1_run-leg+_D#-mi	C4-D7 C4-C#7 C#4-D7 B3-B6
01 FL1_run-leg+_C-ma 02 FL1_run-leg+_C#-ma 03 FL1_run-leg+_D-ma 04 FL1_run-leg+_D#-ma 05 FL1_run-leg+_E-ma	C4-D7 C4-C#7 C#4-D7 C4-C7 C#4-C#7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi 04 FL1_run-leg+_D#-mi 05 FL1_run-leg+_E-mi	C4-D7 C4-C#7 C#4-D7 B3-B6 C4-C7
O1 FL1_run-leg+_C-ma O2 FL1_run-leg+_C#-ma O3 FL1_run-leg+_D-ma O4 FL1_run-leg+_D#-ma O5 FL1_run-leg+_E-ma O6 FL1_run-leg+_F-ma	C4-D7 C4-C#7 C#4-D7 C4-C7 C#4-C#7 C4-C7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi 04 FL1_run-leg+_D#-mi 05 FL1_run-leg+_E-mi 06 FL1_run-leg+_F-mi	C4-D7 C4-C#7 C#4-D7 B3-B6 C4-C7 C4-C#7
O1 FL1_run-leg+_C-ma O2 FL1_run-leg+_C#-ma O3 FL1_run-leg+_D-ma O4 FL1_run-leg+_D#-ma O5 FL1_run-leg+_E-ma O6 FL1_run-leg+_F-ma O7 FL1_run-leg+_F#-ma	C4-D7 C4-C#7 C#4-D7 C4-C7 C#4-C#7 C4-C7 C#4-C#7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi 04 FL1_run-leg+_D#-mi 05 FL1_run-leg+_E-mi 06 FL1_run-leg+_F-mi 07 FL1_run-leg+_F#-mi	C4-D7 C4-C#7 C#4-D7 B3-B6 C4-C7 C4-C#7 C#4-D7
O1 FL1_run-leg+_C-ma O2 FL1_run-leg+_C#-ma O3 FL1_run-leg+_D-ma O4 FL1_run-leg+_D#-ma O5 FL1_run-leg+_E-ma O6 FL1_run-leg+_F-ma O7 FL1_run-leg+_F#-ma O8 FL1_run-leg+_G-ma	C4-D7 C4-C#7 C#4-D7 C4-C7 C#4-C#7 C4-C7 C#4-C#7 B3-C7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi 04 FL1_run-leg+_D#-mi 05 FL1_run-leg+_E-mi 06 FL1_run-leg+_F-mi 07 FL1_run-leg+_F#-mi 08 FL1_run-leg+_G-mi	C4-D7 C4-C#7 C#4-D7 B3-B6 C4-C7 C4-C#7 C#4-D7 C4-C7
O1 FL1_run-leg+_C-ma O2 FL1_run-leg+_C#-ma O3 FL1_run-leg+_D-ma O4 FL1_run-leg+_D#-ma O5 FL1_run-leg+_E-ma O6 FL1_run-leg+_F-ma O7 FL1_run-leg+_F#-ma O8 FL1_run-leg+_G-ma O9 FL1_run-leg+_G#-ma	C4-D7 C4-C#7 C#4-D7 C4-C7 C#4-C#7 C4-C7 C#4-C#7 B3-C7 C4-C#7	01 FL1_run-leg+_C-mi 02 FL1_run-leg+_C#-mi 03 FL1_run-leg+_D-mi 04 FL1_run-leg+_D#-mi 05 FL1_run-leg+_E-mi 06 FL1_run-leg+_F-mi 07 FL1_run-leg+_F#-mi 08 FL1_run-leg+_G-mi 09 FL1_run-leg+_G#-mi	C4-D7 C4-C#7 C#4-D7 B3-B6 C4-C7 C4-C#7 C#4-D7 C4-C7 C#4-C#7

Arpeggios

Legato major	play range	Legato major fast	play range
01_FL1_arp-leg_C-ma	C4-C7	01_FL1_arp-leg+_C-ma	C4-C7
02_FL1_arp-leg_C#-ma	C#4-C#7	02_FL1_arp-leg+_C#-ma	C#4-C#7
03_FL1_arp-leg_D-ma	D4-D7	03_FL1_arp-leg+_D-ma	D4-D7
04_FL1_arp-leg_D#-ma	D#4-D#7	04_FL1_arp-leg+_D#-ma	D#4-D#7
05_FL1_arp-leg_E-ma	E4-B6	05_FL1_arp-leg+_E-ma	E4-B6
06_FL1_arp-leg_F-ma	C4-C7	06_FL1_arp-leg+_F-ma	C4-C7
07_FL1_arp-leg_F#-ma	C#4-C#7	07_FL1_arp-leg+_F#-ma	C#4-C#7
08_FL1_arp-leg_G-ma	B3-B6	08_FL1_arp-leg+_G-ma	B3-B6
09_FL1_arp-leg_G#-ma	C4-C7	09_FL1_arp-leg+_G#-ma	C4-C7
10_FL1_arp-leg_A-ma	C#4-C#7	10_FL1_arp-leg+_A-ma	C#4-C#7
11_FL1_arp-leg_A#-ma	D4-D7	11_FL1_arp-leg+_A#-ma	D4-D7
12_FL1_arp-leg_B-ma	B3-B6	12_FL1_arp-leg+_B-ma	B3-B6

Scale and arpeggio ranges / Arpeggios

		Scale and arpeggio ranges / A	rpeggios
Legato minor	play range	Staccato major fast	play range
01_FL1_arp-leg_C-mi	C4-C7	01_FL1_arp-sta+_C-ma	C4-C7
02_FL1_arp-leg_C#-mi	C#4-C#7	02_FL1_arp-sta+_C#-ma	C#4-C#7
03_FL1_arp-leg_D-mi	D4-D7	03_FL1_arp-sta+_D-ma	D4-D7
04_FL1_arp-leg_D#-mi	D#4-D#7	04_FL1_arp-sta+_D#-ma	D#4-D#7
05_FL1_arp-leg_E-mi	E4-B6	05_FL1_arp-sta+_E-ma	E4-B6
06_FL1_arp-leg_F-mi	C4-C7	06_FL1_arp-sta+_F-ma	C4-C7
07_FL1_arp-leg_F#-mi	C#4–C#7	07_FL1_arp-sta+_F#-ma	C#4-C#7
08_FL1_arp-leg_G-mi	A#3–A#6	08_FL1_arp-sta+_G-ma	B3-B6
09_FL1_arp-leg_G#-mi	B3–B6	09_FL1_arp-sta+_G#-ma	C4-C7
10_FL1_arp-leg_A-mi	C4-C7	10_FL1_arp-sta+_A-ma	C#4-C#7
11_FL1_arp-leg_A#-mi	C#4–C#7	11_FL1_arp-sta+_A#-ma	D4-D7
12_FL1_arp-leg_B-mi	B3–B6	12_FL1_arp-sta+_B-ma	B3–B6
Legato minor fast	play range	Staccato minor	play range
01_FL1_arp-leg_C-mi+	C4-C7	01_FL1_arp-sta_C-mi	C4-C7
02_FL1_arp-leg_C#-mi+	C#4–C#7	02_FL1_arp-sta_C#-mi	C#4-C#7
03_FL1_arp-leg_D-mi+	D4-D7	03_FL1_arp-sta_D-mi	D4-D7
04_FL1_arp-leg_D#-mi+	D#4-D#7	04_FL1_arp-sta_D#-mi	D#4-D#7
05_FL1_arp-leg_E-mi+	E4-B6	05_FL1_arp-sta_E-mi	E4-B6
06_FL1_arp-leg_F-mi+	C4-C7	06_FL1_arp-sta_F-mi	C4-C7
07_FL1_arp-leg_F#-mi+	C#4-C#7	07_FL1_arp-sta_F#-mi	C#4-C#7
08_FL1_arp-leg_G-mi+	A#3-A#6	08_FL1_arp-sta_G-mi	A#3-A#6
09_FL1_arp-leg_G#-mi+	B3-B6	09_FL1_arp-sta_G#-mi	B3-B6
10_FL1_arp-leg_A-mi+	C4-C7	10_FL1_arp-sta_A-mi	C4-C7
11_FL1_arp-leg_A#-mi+	C#4-C#7	11_FL1_arp-sta_A#-mi	C#4-C#7
12_FL1_arp-leg_B-mi+	B3-B6	12_FL1_arp-sta_B-mi	B3-B6
Staccato major	play range	Staccato minor fast	play range
01_FL1_arp-sta_C-ma	C4-C7	01_FL1_arp-sta_C-mi+	C4-C7
02_FL1_arp-sta_C#-ma	C#4–C#7	02_FL1_arp-sta_C#-mi+	C#4-C#7
03_FL1_arp-sta_D-ma	D4-D7	03_FL1_arp-sta_D-mi+	D4-D7
04_FL1_arp-sta_D#-ma	D#4-D#7	04_FL1_arp-sta_D#-mi+	D#4-D#7
05_FL1_arp-sta_E-ma	E4–B6	05_FL1_arp-sta_E-mi+	E4–B6
06_FL1_arp-sta_F-ma	C4-C7	06_FL1_arp-sta_F-mi+	C3-C7
07_FL1_arp-sta_F#-ma	C#4-C#7	 07_FL1_arp-sta_F#-mi+	C#4-C#7
08_FL1_arp-sta_G-ma	B3–B6	08_FL1_arp-sta_G-mi+	A#3-A#6
09_FL1_arp-sta_G#-ma	C4–C7	09_FL1_arp-sta_G#-mi+	B3–B6
10_FL1_arp-sta_A-ma	C#4-C#7	 10_FL1_arp-sta_A-mi+	C4-C7
11_FL1_arp-sta_A#-ma	D4-D7	 11_FL1_arp-sta_A#-mi+	C#4-C#7
12_FL1_arp-sta_B-ma	B3-B6	12_FL1_arp-sta_B-mi+	B3-B6
. —		. —	